Remote Multi-Deck Cases

Osprey H20 II - Osprey H22 II

DELTA
REFRIGERATION SERVICES LTD

Installation, Operation & Maintenance Manual

GB

CE

Remote Multi-Deck Cases / Osprey II

Introduction and index

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WARNING !!!

Do not start to installation and to use the cabinet before you read this user manual.

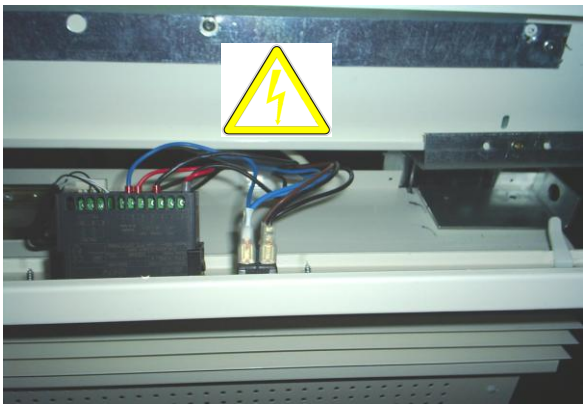
HIGH VOLTAGE RISK !

ATTENTION!:230 Volts

. **If you have no licence to install electrical parts, do not interfere to the cabinet or control board.**

. **Contact with qualified persons or with Maryap Technical Service, when you buy a new cabinet from Maryap or when you meet with a faliure on the cabinet.**

. **Do not open and do not touch to insulated connections.**



Definition of Cases and Models

Asos II, Aspendos II are refrigerated vertical display cases for supermarkets.
Their refrigeration system has been assisted by internal circulation fans. Refrigerated air between coil fins is circulated in the case and heat of internal air and heat of the merchandises are absorbed. Absorbed heat energy is sent away to the external air on by using condensing units.
Vertical display cases are suitable to display dairy, prepacked meat and fruit-vegetables.

Asos II has 2,03 metres and Aspendos II has 2,23 metres height.

DECODING:

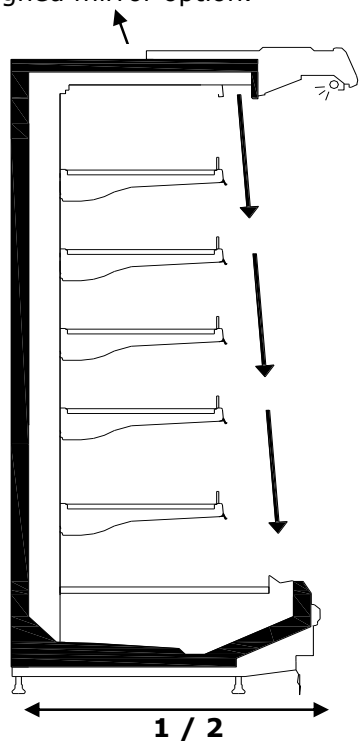
Model Name	Using	Depth	Front Base
Asos II Aspendos II	S	1 / 2	A / Y
	M	1 / 2	A / Y
	P	1 / 2	A / Y

A: Short : 350 mm.
Y: High : 450 mm

1: Narrow : 900 mm.
2: Wide: 1100 mm.

S:Dairy
M:Fruit-Vegetable
P: Prepacked meat

Aligned mirror option.



Endwalls can be produced with panaromic securit glasses or with mirror.

Asos II series have 4 tiers of shelves at S series, 3 tiers of shelves at P series and 2 tiers of shelves at M series.

Aspendos II series have 5 tiers of shelves at S series, 4 tiers of shelves at P series and 3 tiers of shelves at M series.

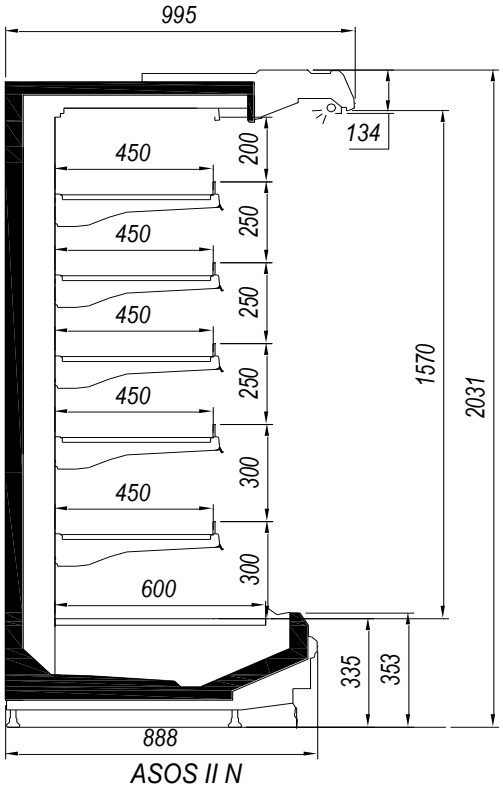
Additional shelves are optional according to customer requirements.

Also one row of aligned mirror can be added in to the case and display capability can be increased.

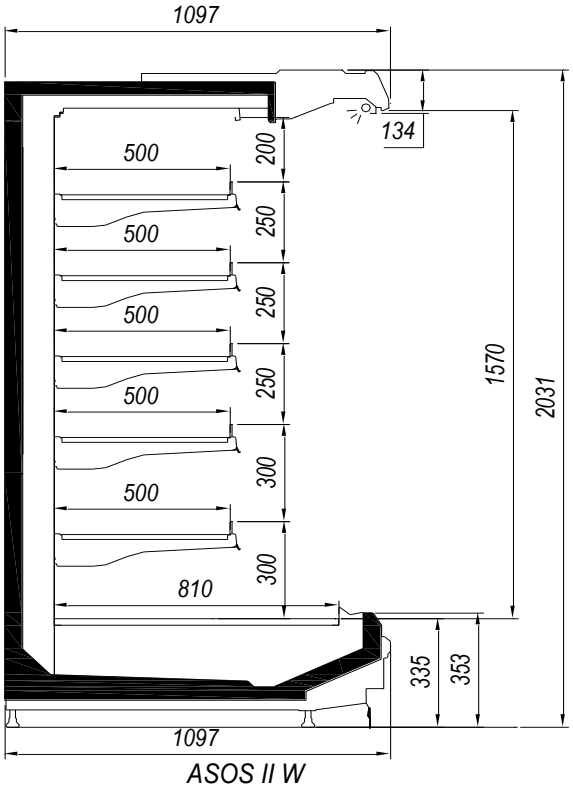
STANDARD MODULAR LENGTHS (in mm)						
CC 45°	CC 90°	1250	1875	2500	3125	3750
+ 2 x 50 mm. Side Walls						

Cross sectional profiles

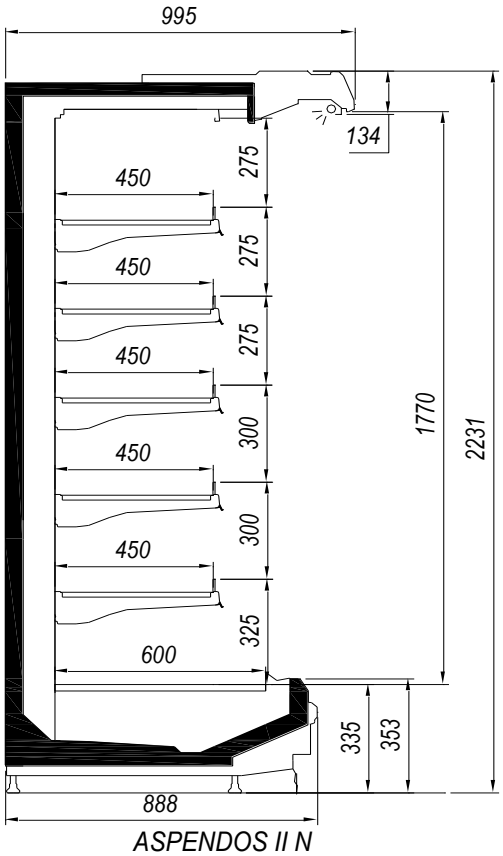
(All dimensions in mm. !!!)



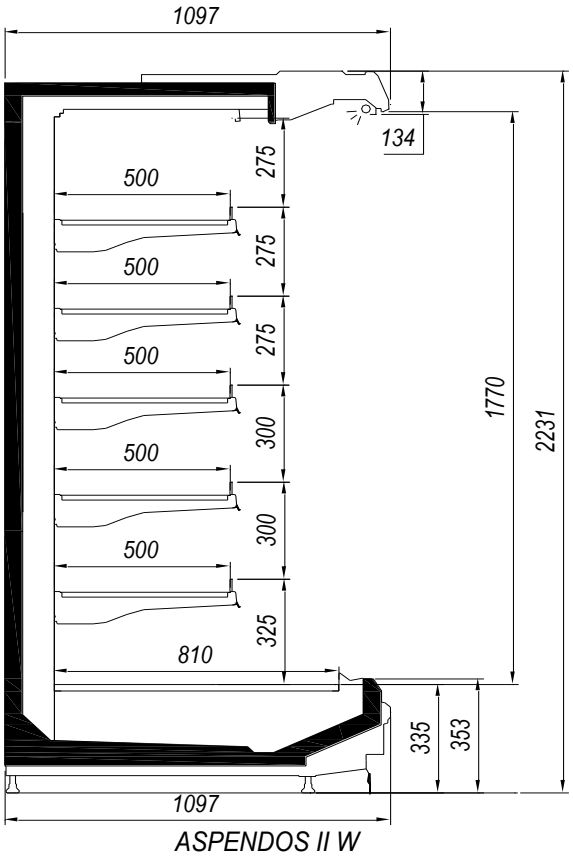
ASOS II N



ASOS II W

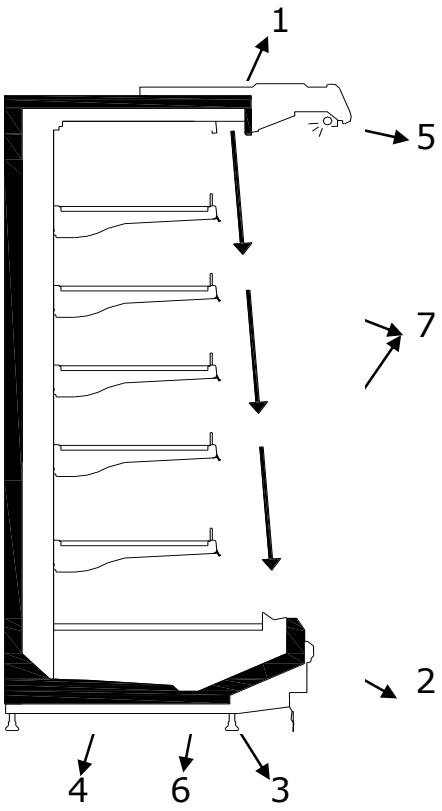


ASPENDOS II N



ASPENDOS II W

Working Principles



Circulation fans (3) suck hot air from air return grill (2) and send to the evaporators fins (4).

Hot air is refrigerated between evaporator fins and cold air goes on to the up levels on arrow directions in the cold air canal. It is blowed into the case by the air off canals (1). Hot external air mixes into the refrigerated air while it goes on to the air return grill (2).

When it is circulated in the case, heat energy of merchandises and heat energy of external air is absorbed by the cold air and temperature of cold air warms up till it passes between the evaporator fins.

Lights (5) supply well displaying of merchandises and maximizes sales.

Drain pipe (6) should be fitted to the supermarket's drain line.

Make sure that arranging of merchandises is same as figure that shown at the left (7). Always consider the loading limits.

Your display case has been designed according to ISO 1992 / II EN 441 CLASS 3. It means, working conditions should be maximum 25°C and 60% relative humiditiy.

Case performance can be decrease when conditiones are harder !!!

VOLTAGE: 230 V.
FREQUENCY: 50 Hz.
ELECTRICITY POWER: Nominal absorbed power
LIGHTING: Absorbed power by the lights
DEFROST: Heater element power
FUSE: Fuse in the electrical control board.
CLIMATIZATION RANGE: Class III (25°C/60% R.H.)
REFRIGERATING CAPACITY: Refrigerating capacity at -10°C evaporation & +45°C condensation conditions
REFRIGERANT FLUID: R22 / R404A
FLUID MASS: Charged refrigerant quantity

maryap
MADE IN TURKEY

MODEL / MODEL : ASOS S2A 3750
SERİ NO / SERIAL NUMBER : XXXXXX00X00XXXXXXXX

VOLTAJ / VOLTAGE	: 220-240	Volt
FREKANS / FREQUENCY	: 50	Hz
REYON GÜCÜ / ELECTRICITY POWER	: XXX	Watt
AYDINLATMA GÜCÜ / LIGHTING	: XXX	Watt
DEFROST / DEFROST	: XXXX	Watt
SİGORTA / FUSE	: -	Amp
SOĞUTMA SINIFI / CLIMATIZATION RANGE	: Class III/25 C - 60 % RH	
SOĞUTMA KAPASİTESİ / REFR. CAPACITY	: XXXX	Watt
SOĞUTMA SIVISI / REFR. FLUID	: RXXX	
SOĞUTMA SIVISI KÜTLESİ / FLUID MASS	: -	Kg

ÜRÜN MODEL BİLGİSİ / PRODUCT MODEL INFORMATION

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Form-SVK-005 Rev. No : 01 Rev. Tarihi : 12.01.2005 Sayfa : 1/1

Intended Use

Do not call technical service before you read this sheet !!!

Asos II, Aspendos II are refrigerated vertical display cases for supermarkets.

Your vertical display case is not for storage. It is only for refrigerated display for daily working hours.

It does not reduce temperature of merchandises. It only supplies stable merchandise temperature according to the selected refrigeration class.

Refrigeration Class	Required Merchandise Temperature	Air Temperature of the Case
M2	**-1 °C / + 7 °C**	**+2 °C / +4 °C**
M1	**-1 °C / +5 °C**	**0 °C / +2 °C**
H1	**+1°C /+10 °C**	**+4 °C / +6 °C**

An M2 case can not achieve M1 performance. Be careful you selected right case for your requests. Also an H1 case can not achieve M1 and/or M2 performance. Each of the models should be used in its own class.

Asos II, Aspendos II can supply M2, M1 and H1 temperatures in the suitable working conditions. They are 25°C ambient temperature and 60% relative humidity for Class II cases.

Always load chilled product. Your display case is designed to maintain not reduce temperature.

If warm product is loaded within the case, there may be a delay in the case reaching its normal

Technical specifications

CLASS	M2 (-1 / +7 °C)				
Length (mm)	1250	1875	2500	3125	3750
Side Walls (mm)	2x50				
Total Length (mm)	1350	1975	2600	3225	3850
Height (mm)	2050				
Depth (mm)	900/1100				
Display area (m²)	3 / 3,5	4,5 / 5,2	6 / 7	7,5 / 8,8	9 / 10,5
Temperature range (°C)	+2°C to +4°C				
Refrigerant	R22 / R404A				
Refrigeration Cap. (W/m)	1340 / 1450 Watts/meter @ -10°C / +45°C Conditions.				
Exp. Valve Orifice No	2	3	3	4	4
Defrost cycle	8 defrosts x 15 minutes each / per 24 hours period				
Voltage (V)	230				
Frequency (Hz)	50				
Fuse (A)	13	13	13	13	13
No of Evaporator Fans	2	3	4	5	6
Blade Diameter (mm)	200				
Evaporator Fans (W)	110	165	220	275	330
(A)	0.7	1.05	1.4	1.75	2.1
Defrost Heaters (W)	-------	-------	-------	-------	-------
(A)	-------	-------	-------	-------	-------
Trim Heaters (W)	-------	-------	-------	-------	-------
(A)	-------	-------	-------	-------	-------
Lighting (W)	36	58	72	94	108
(A)	0.43	0.69	0.86	1.12	1.29
Nominal power (W)	146	223	292	369	438
(A)	1.13	1.74	2.26	2.87	3.39
Undershelf Lighting (W)	112	168	224	280	336
(4 tiers-Optional) (A)	0.38	0.53	0.76	0.91	1.15

Data specified in the above table is based on the following parameters: EN 441 Class III, 25°C ambient temperature, 60% relative humidity, 0,2 m/s. Air flow, 600 lux fluorescent lighting.

Technical specifications

CLASS	M1 (-1 / +5 °C)				
Length (mm)	1250	1875	2500	3125	3750
Side Walls (mm)	2x50				
Total Length (mm)	1350	1975	2600	3225	3850
Height (mm)	2050				
Depth (mm)	900/1100				
Display area (m²)	2,4 / 2,8	3,6 / 4,2	4,8 / 5,7	6 / 7,2	7,3 / 8,6
Temperature range (°C)	0°C to +2°C				
Refrigerant	R22 / R404A				
Refrigeration Cap. (W/m)	1400 / 1570 Watts/meter @ -10°C / +45°C Conditions.				
Exp. Valve Orifice No	2	3	3	4	4
Defrost cycle	8 defrosts x 15 minutes each / per 24 hours period				
Voltage (V)	230				
Frequency (Hz)	50				
Fuse (A)	13	13	13	13	13
No of Evaporator Fans	2	3	4	5	6
Blade Diameter (mm)	200				
Evaporator Fans (W)	110	165	220	275	330
(A)	0.7	1.05	1.4	1.75	2.1
Defrost Heaters (W)	520	835	1115	1355	1675
(Optional) (A)	2.26	3.63	4.84	5.89	7.28
Trim Heaters (W)	-------	-------	-------	-------	-------
(A)	-------	-------	-------	-------	-------
Lighting (W)	36	58	72	94	108
(A)	0.43	0.69	0.86	1.12	1.29
Nominal power (W)	146	223	292	369	438
(A)	1.13	1.74	2.26	2.87	3.39
Undershelf Lighting (W)	84	126	168	210	252
(3 tiers-Optional) (A)	0.28	0.4	0.57	0.68	0.86

Data specified in the above table is based on the following parameters: EN 441 Class III, 25°C ambient temperature, 60% relative humidity, 0,2 m/s. Air flow, 600 lux fluorescent lighting.

Technical specifications

CLASS	H1 (+1 / +10 °C)				
Length (mm)	1250	1875	2500	3125	3750
Side Walls (mm)	2x50				
Total Length (mm)	1350	1975	2600	3225	3850
Height (mm)	2050				
Depth (mm)	900/1100				
Display area (m²)	1,8 / 2,2	2,7 / 3,4	3,7 / 4,5	4,6 / 5,6	5,6 / 6,7
Temperature range (°C)	+4°C to +6°C				
Refrigerant	R22 / R404A				
Refrigeration Cap. (W/m)	1200 / 1280 Watts/meter @ -10°C / +45°C Conditions.				
Exp. Valve Orifice No	2	3	3	4	4
Defrost cycle	8 defrosts x 15 minutes each / per 24 hours period				
Voltage (V)	230				
Frequency (Hz)	50				
Fuse (A)	13	13	13	13	13
No of Evaporator Fans	2	3	4	5	6
Blade Diameter (mm)	200				
Evaporator Fans (W)	110	165	220	275	330
(A)	0.7	1.05	1.4	1.75	2.1
Defrost Heaters (W)	-------	-------	-------	-------	-------
(A)	-------	-------	-------	-------	-------
Trim Heaters (W)	-------	-------	-------	-------	-------
(A)	-------	-------	-------	-------	-------
Lighting (W)	36	58	72	94	108
(A)	0.43	0.69	0.86	1.12	1.29
Nominal power (W)	146	223	292	369	438
(A)	1.13	1.74	2.26	2.87	3.39
Undershelf Lighting (W)	56	84	112	140	168
(2 tiers-Optional) (A)	0.19	0.26	0.38	0.45	0.57

Data specified in the above table is based on the following parameters: EN 441 Class III, 25°C ambient temperature, 60% relative humidity, 0,2 m/s. Air flow, 600 lux fluorescent lighting.

Transport and Delivery

Transport:

Cases should always be transported in the upright position.

Cases should be handled with care. Avoid dropping or jolting the case, which may cause damage.

Remove packaging carefully

Unpacking:

Protective packaging should be removed carefully. If using knives or sharp implements avoid damaging glass or paintwork.

Check case for damage and if neccessary report damage to the carrier and supplier.

Your case will be supplied assembled, with shelves held in place by plastic and metal transit clips. Check for any deficiencies and advise shortages to your supplier. Remove plastic clips (ties) with a sharp knife or scissors and remove metal transit clips with pliers or hand.

Remove plastic shelf clips (ties) with a knife or scissors

Remove metal shelf transit clips with pliers

Multiplexing:

Take off the covers to find connection holes on the plasters. You should use the nuts and screws has been sent by the cabinet.

Location of your display case

Siting:

Cases should be located on a flat and even surface. Feet may be adjusted as required to ensure that the case is level

Do not expose the case to direct sunlight or other sources of heat. Avoid incandescent lighting

Avoid locations where the case may be knocked by cleaning machines and pallets

Adjustable feet

Access:

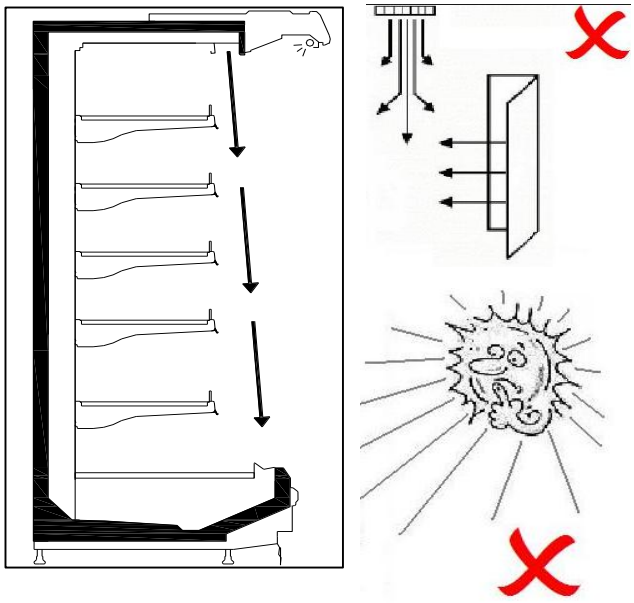
Ensure that the case is easily accessible for loading and unloading

Place the case in a prominent position within the store to maximise visibility of merchandise, promoting impulse purchases

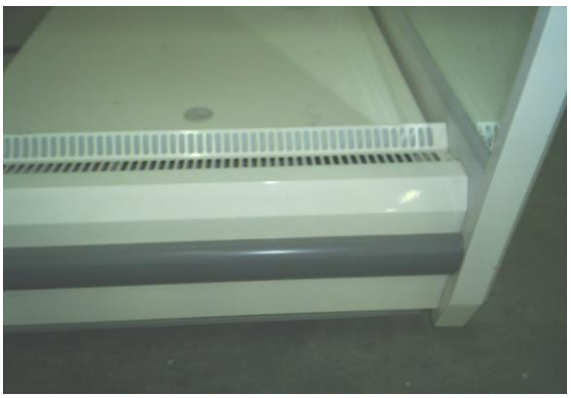
Ventilation:

Make sure that air return grille was almost open.
Do not put the merchandising on to the air return grille. Closed air return grilles decrease the performance.

Do not locate the case close to sources of draught, such as doors, open windows or air conditioning vents



Air Flow Direction



Make sure air return grille was open

Never place somethings in a position which may restrict air flow

Installation

Assembly:

Assembly, installation and connection of the case should always be undertaken by appropriately qualified personnel

Adjustable shelves should be located and locked into position in the desired shelving configuration

To adjust the shelves lift brackets straight up firmly and remove the shelf. Relocate the shelf as required and push brackets firmly into place. It is recommended that two people undertake this procedure- one on each shelf bracket

Epos ticket strips should be located on the front edge of the shelves

If there is, perspex risers should be use for sloped shelves

Standard application is perspex glasses on the front edge of the shelves. Also plastic epos profiles has been applied.

Standart perspex shelf risers that made of tempered glass.

Firmly lift up shelve bracket

Epos ticket strips & perspex shelf riser on thefront edge of the shelf

Power Supply:

As standard the case is supplied at 230V-50 Hz.
Please ensure that the local power supply is appropriate

If the case is hard wired to the mains supply, a means of isolation must be provided

The power point should be accessible after the case is positioned

The case should be earthed

An equipotential earth bonding terminal is also supplied, allowing the case to be bonded to a building surge earth or adjacent equipment

Epos ticket strips & perspex shelf riser on thefront edge of the shelf

Operation

Switching On:

Ensure that the mains power supply is connected and switched on

The case fans will operate as soon as the power is switched on and digital termostat screnn will start to blinking. You will see current ambient temperature after controller finished blinking.

Case temperature will begin to fall to its pre-set value. For the pre-set temperature for your spesific model, please refer to the table on page 4, 5 or 6.

Turn on the light switch on the control pannel. It is next to the digital controller

The digital controller is located on to the top canopy at the right hand of cabinet.

The light switch is next to the digital controller.

Merchandising:

Allow the case to operate for at least two hours before loading merchandise

When loading cases do not exceed loading limits or allow product to overhang shelf front edges or obstruct air return grilles

A tidy, well merchandised case will function more efficiently than a badly loaded one

Ensure free air flow around the merchandise and between the air discharge and return ducts

Always load chilled product. Your display case is designed to maintain not reduce temperature. If warm product is loaded within the case, there may be a delay in the case reaching its normal operating temperature

Remote Multi-Deck Cases / Osprey II

Control Panel

As standard the case is supplied with an eliwell ID974 or ID 961, full functional electronic controller, incorporating an LED thermometer, which displays average case operating temperature.

The controller is factory pre-set, but parameters may be programmed as detailed below.

Reprogrammed parameters take immediate effect and will be saved in the event of loss of power to the controller.

Pressing 5 seconds to "UP" arrow supplies manual defrosting when you determine icing up on the evaporator. !!!

ID 974

ID 961

Parameter Definition	Display on LED	Asos II M1 Aspendos II M1	Asos II M2 Aspendos II M2	Asos II H1 Aspendos II H1
SET POINT **Temperature Set Point**	SEt	0 °C	+2 °C	+4 °C
OPERATING PARAMETERS **Temperature Differential**	diF	2 °C	2 °C	2 °C
Probe Offset	CA1/CA2	0	0	0
Set Point Maximum	HSE	+2 °C	+4 °C	+6 °C
Set Point Minimum	LSE	0 °C	+2 °C	+4 °C
Compressor Rest Time	dbi	0 minutes	0 minutes	0 minutes
DEFROST PARAMETERS **Time between Defrosts**	dit	4 hours	4 hours	4 hours
Termination Time	dEt	45 minutes	45 minutes	45 minutes
Defrost Recovery Temp.	dSt	12 °C	12 °C	12 °C
ALARM PARAMETERS **High Temperature Alarm**	HAL	+25 °C	+25 °C	+25 °C
Low Temperature Alarm	LAL	-5 °C	-5 °C	-50 °C
Alarm Delay	tAO	30 minutes	30 minutes	30 minutes

Remote Multi-Deck Cases / Osprey II

Cleaning

General:

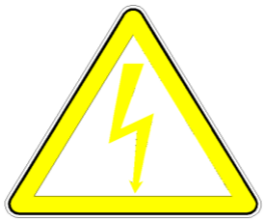
HIGH VOLTAGE RISK !	ATTENTION!:230 Volts

A regular and thorough cleaning regime is essential for the efficient and hygienic operation of your display case.

Before undertaking any cleaning operation, **ALWAYS** turn the case off and if possible disconnect from the mains power supply.

Avoid splashing water onto the case's electrical elements. If water splashing should occur make sure that all electrical components are thoroughly dry before reconnecting to the power supply.

Never use abrasive or caustic cleaning agents.



SHOCK HAZARD !!!	

TURN OFF THE POWER BEFORE START TO CLEANING !!!

Exterior / Internal surfaces, shelves and air grilles:

Painted or metal surfaces should be cleaned with a cloth soaked in warm soapy water.

Surfaces should be dried with soft cloth.

Shelves should be removed for cleaning as above.

Glass and Mirror:

Glass and mirrored endwalls should be cleaned with a suitable glass cleaner.

Glass and mirrored surfaces may be buffed with a soft dry cloth

Case Well:

Lift out deck trays and sweep or vacuum any debris from the case well.

The well may be wiped with a cloth and mild disinfectant.

Remote Multi-Deck Cases / Osprey II

Cleaning

Fan Deck:

Lift the fan plate allow cleaning around the fans. Make sure that fans are not running ! Never take off the fan guards.Never try to stop the fans with your hands while they are running.

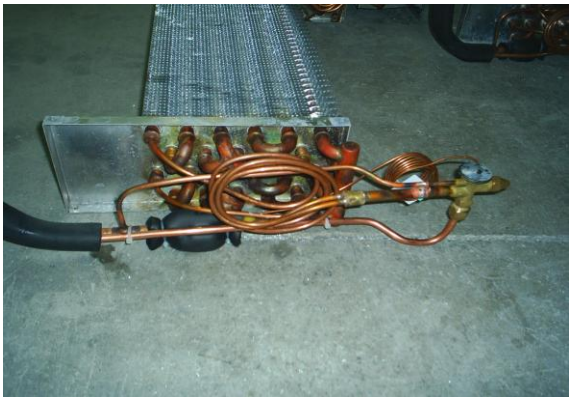
Clean around the fans

Cooling Fins:

Carefully vacuumm dust and air borne debris from the cooling fins.

Exercise care not to damage fins.

Beware of the sharp finds and take care when cleaning this area.



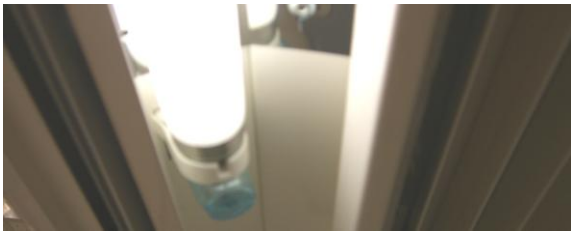
Vacuum dust and debris from the cooling fins

Water Outlets:

Outlets for waste water should be cleaned regularly to ensure a continious flow of waste water.

Neons:

Fluorescent neons may be cleaned with a soft dry cloth. Make sure that neons turned off.



Remote Multi-Deck Cases / Osprey II

Housekeeping routines

Close of business:

Cases should not be switched off at close of business or overnight

If appropriate night blinds may be used for energy conservation of up to 30% during non trading hours

The use of night blinds during non trading hours makes significant energy savings

Defrost Cycles:

Your display case is pre-programmed with an automatic defrost cycle of 4 x 45 minutes defrosts in each 24 hour period unless programmed otherwise

The first defrost will take place 4 hours after switching on the case.

The case is programmed for automatic defrosts

Case Inspection:

Operating temperature, as indicated on the controller mounted on the front of the case, should be checked on a daily basis.

Cases should be monitored on a daily basis for any undue noise, smell or malfunction.

Regularly inspect the case for milk spillage or debris in the air grilles, case well and condensate tray. Remove and clean spillages and debris.

Service Request:

In the event of malfunction or failure, you should request a **service engineer** visit as soon as possible. If in doubt turn off the case and disconnect from the mains supply.

MARYAP PHONE NUMBER : +90 (212) 795 05 27

Case temperature, as indicated on the controller LED, should be checked

Servicing of your case should only be undertaken by an approved Service Engineer. Failure to comply may invalidate your warranty and there is SHOCK HAZARD !

In the event of case failure, remove perishables from the display case and store in an alternative, suitably chilled location to avoid deterioration of merchandise.

Remote Multi-Deck Cases / Osprey II

Service and maintenance

Symptom	Test	Result	Fault / Action
Compressor not running	Is digital display (if fitted) illuminated ?	No	Check power supply is on and fuses
	Are lights & / or evaporator fans running ?	No	Check power supply is on and fuses
	Reset the pressure control in the condensing unit	Compressor runs Compressor does not run	OK Check Thermic Relay
	Reset the thermic relay in the control board Adjust controller set point	Compressor runs Compressor does not run Compressor cycles	OK Call Service Engineer OK
Compressor runs continiously	Adjust set point bigger than the current display (Set Point:3 > Display:2)	Compressor stops	Cabinet not achieving set temp - check refrigeration
		Compressor runs	Replace controller
	Is the condenser clean ?	Clean	OK
		Dirty	Clean it
	Remove temperature probe	Compressor stops	Replace controller
		Compressor runs	Case wiring fault
Refrigeration is not enough	Check the store conditions	Store conditions are hot	Supply suitable conditions
	Check the icing up on the coil	Iced Up	Remove icing up via manual defrosting (Press up arrow during 5 seconds)
	Check the air return grille was completely open	Open	OK
		Closed	Supply open grille surface
	Is set point of the digital controller right ?	Right	OK
		Not right	Adjust to right set point
Cabinet runs noisy	Check the active parts	Noisy part/parts founded	Call Service Engineer
Case not operating at correct temperature. i.e. Air off temperature **cut out -2/-1°C** **cut in +0/+1°C**	Adjust controller set point	Case operates at correct temperature	OK
		Case not operating at correct temperature & compressor runs continuously	If air off temperature is too high check refrigeration system and air flow, iced up evaporator
		Compressor cycles but case temperature too high	Check probe & / or change controller
Lights are not lighting	Is the light switch on ?	Yes	OK
		No	Switch on
	Is neon tube at the correct position in the light sockets ?	Yes	OK
		No	Supply correct position
	Is starter running ?	Yes, I see blinking	OK
		No, I do not see blinking	Change the starter
	Is neon tube OK ? Remove it and insert a new one	It is lighting	Dispose spent tube
		It is not lighting	Call Service Engineer
There is no air flow at air off canal	Check the circulation fans under the base tray	Evaporator Fans run	OK
		Evaporator Fans do not run	Check the fans fuse
	Check the icing up on the evaporator	It is clean It is iced up	OK Remove icing up via manual defrosting

Remote Multi-Deck Cases / Osprey II

Service and maintenance

Lighting:

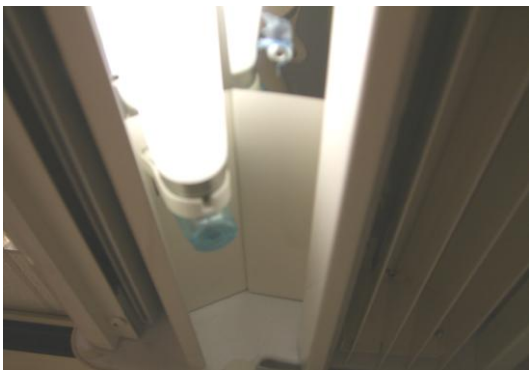
Description:

As a standard, Asos II - Aspendos II - Saturn cases feature a single row T8 fluorescent tube located in the canopy of case.

Reflector part increases the lighting power without using extra energy.

1250 model incorporates one T8 fluorescent tube.
1875 and 2500 models incorporate two T8 fluorescent tubes.
3125 and 3750 models incorporate three T8 fluorescent tubes.

A starter is located adjacent to the tube(s).



The lighting tube is located in the case canopy

The starter is located adjacent to the tube

To replace the tube:

Ensure that the case is switched off and, if possible, disconnected from the mains supply.
Extreme caution should be exercised in changing the tube as it may shatter

Carefully remove the spent tube from its mounting points
Insert a new, appropriately rated, T8 fluorescent tube ensuring that it is securely in place

Restore mains power and switch on the case
Dispose of the spent tube in a safe and environmentally responsible way

To replace the tube starter:

Ensure that the case is switched off and if possible disconnected from the mains power supply

Remove the spent starter from its mounting
Insert a new, appropriately rated, starter in the mounting point, ensuring that it is securely in place

Condenser

Cleaning of the Condensing Unit:

Ensure that the condensing unit is switched off and if possible disconnected from the mains power supply
Carefully vacuumm dust and air borne debris from the condenser fins.
Exercise care not to damage fins.
Restore mains power and switch on the case

Back side of condenserwill be cleaned

Remote Multi-Deck Cases / Osprey II

Maintenance and Check Plan

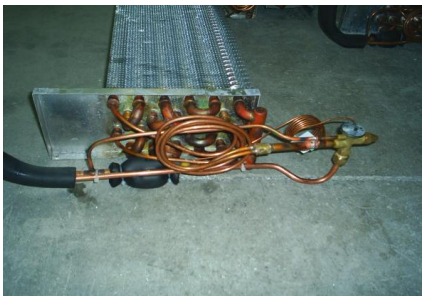
Customer is liable on these operations !!!

Check or Maintenance	Daily	Weekly	Mounthly
Cleaning of condenser			X
Cleaning of evaporator			X
Checking of the digital controllers display	X		
Checking of icing up of the evaporator		X	
Cleaning of the case drain			X
Checking of the case circulation fans	X		
Checking of the condenser fan(s)		X	
Checking of the air off at upper vanes	X		

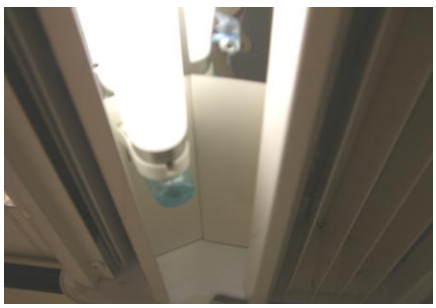
CONDENSER AND CONDENSER FAN(S)

DRAIN AND CIRCULATION FAN(S)

EVAPORATOR

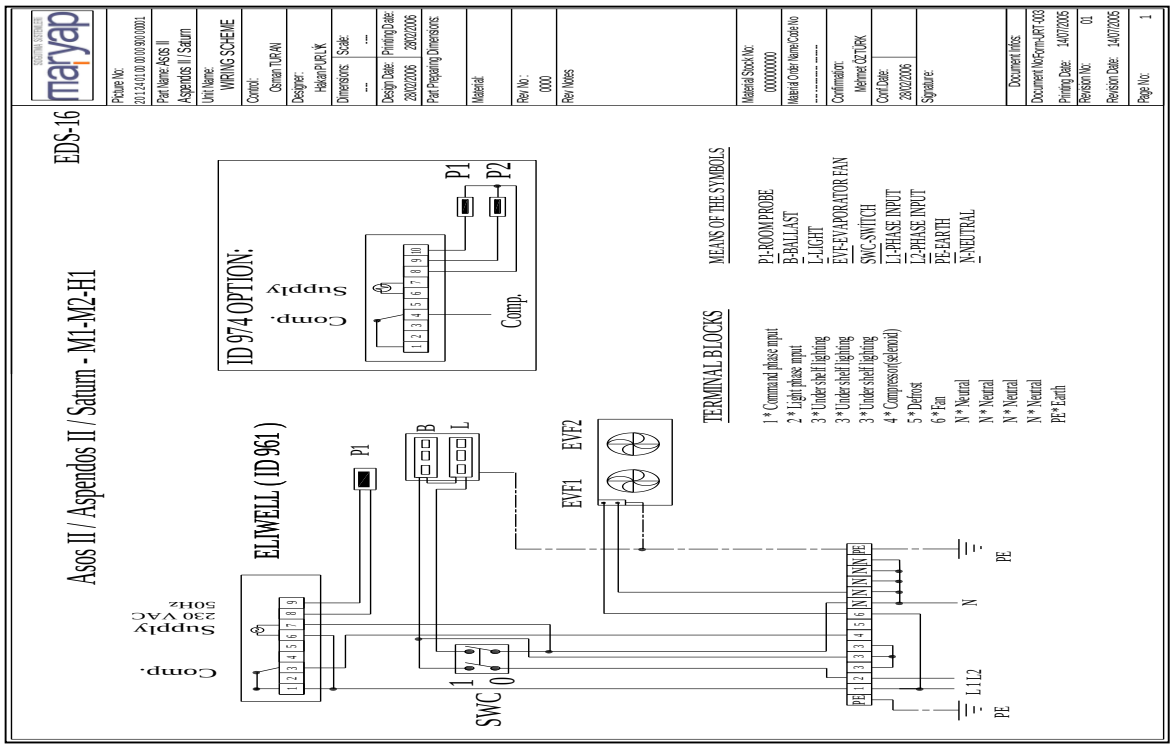


UPPER VANES



DISPLAY

Electrical circuit drawing for models M1/M2/H1



Remote Multi-Deck Cases / Osprey II

Warranties and liability

1 The Seller will have no liability to the Buyer for damage in transit, shortage of delivery of loss of Goods unless the Buyer gives written notice to the Seller of such damage, shortage of loss with reasonable particulars thereof within three days of receipt of the Goods or (in the case of total loss) of receipt of the invoice or other notifications of despatch. The Seller's liability (if any) will be limited to replacing or (in its discretion) repairing such Goods and it shall be a condition precedent to any such liability that the Buyer will if so requested, provide authority for the Seller's employees or agents to inspect any damaged Goods within fourteen days of such request. The Seller will not be liable for any damage to or loss of Goods occurring after risk in the Goods has passed to the Buyer. Furthermore, the Seller will have no liability for any consequential loss arising out of any damage in transit, shortage of delivery or loss of the Goods.

2 Subject to clause 2.3 the Seller warrants that:
2.1 the goods shall be free from defect in materials and workmanship for a period of 12 months from the date of delivery to the Buyer.
2.2 it will perform the Services with reasonable care and skill and in accordance with the terms of the Contract.

3 The above warranty is given by the Seller subject to the following conditions:
3.1 the Seller will be under no liability in respect of any defect in the Goods arising from any drawing, design or specification supplied by the Buyer.
3.2 the Seller will be under no liability in respect of any defect in the Goods arising from fair wear and tear, accidental or wilful damage, negligence of the Buyer or it's employees or agents, abnormal working conditions, or use of Goods outside their design parameters, failure to follow the Seller's instructions (whether oral or in writing) or misuse.
3.3 the Seller will be under no liability in respect of any defect in the Goods arising from (a) improper installation service or repair carried out by any one other than the Seller (b) any alteration to the Goods carried out by anyone other than the Seller or a service agent approved by the Seller or (c) the use of any spare part or component which has not been manufactured or supplied by the Seller.
3.4 the above warranty does not extend to parts, materials or equipment not manufactured by the Seller, in respect of which the Buyer will only be entitled to the benefit of any such warranty or guarantee as is given by the manufacturer of such parts, materials or equipment to the Seller.

4 The Buyer will notify the Seller as soon as reasonably practicable after becoming aware of any defect in the Goods or any deficiency in the Services and will provide authority for the Seller's employees or agrees to inspect the Goods and / or Services and if necessary to remove any Goods for further testing and analysis.

5 Where any valid claim is made by the Buyer that the Goods are defective or that the Services have not been performed with reasonable care and skill and in accordance with the terms on the contract then the Seller will (in the case of the Goods) at its discretion either repair or replace the Goods (or the part in question) free of charge and (in the case of the Services) will at its cost re-perform the Services necessary to remedy the deficiency.

6 Subject to the clause 10 the Seller will have no other or further liability to the Buyer and whether for breach of Contract, negligence, breach of statutory duty or otherwise in respect of any claims, proceedings, damages, losses, costs and expenses (whether direct or consequential and including without limitation refrigerant loss, food loss, loss of business, loss of profit and loss of good will) made against or incurred by the Buyer arising from or in connection with any defect in the Goods or any failure by the Seller to perform the Services with reasonable skill and care and in accordance with the Contract.

7 The Seller's liability for any direct loss or damage sustained by the Buyer as a result of any error in any weight, dimension,capacity performance or any other description or information which has formed a representation or is part of the Contract will not exceed the price of the Goods and / or the Services in respect of which description or information is incorrect.

8 Except for the terms applied in Section 1 2 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982, all conditions warranties and other terms express or implied, statuary or otherwise are expressly excluded except in so far as they are contained in these Conditions otherwise expressly agreed by the Seller in writing.

9 Subject to clause 10 the Seller will not be liable to the Buyer in respect of any direct or consequential loss or damage suffered by the Buyer arising from the negligence of the Seller or wilful default of the Seller's employees or agents in connection with the supply of the Goods or the design or manufacture thereof or in the performance of the Services.

10 The terms of clause 6 and 9 will not exclude any liability of the Seller:-
10.1 for the death or personal injury resulting from the negligence of the Seller or the negligence or wilful default of theSeller's employees or agents: or
10.2 under the Consumer Protection Act 1 987.

11 Except in respect of liability for death or personal injury resulting from negligence the Seller will not be liable to the Buyer under any circumstances (and whether arising from breach of Contract or the negligence or breach of statutory duty of the Seller or its employees or agents or otherwise) for any indirect special or consequential loss or damage including without limitatition refrigerant loss, food loss, loss of business or loss of profit and loss of good will surffered by the Buyer which arises out or in connection with the supply of the Goods or their use or resale by the Buyer or the performance of the Services even if such loss was reasonably foreseeable or the Seller had been advised of the possibility of the Buyer incurring the same.

12 The seller shall not be liable to the Buyer or to deem to be in breach of the Contract by reason of any delay in performing or any failure to perform any of the Seller's obligations in relation to the goods or the Services if the delay or failure was due to any cause beyond the Seller's reasonable control. Without prejudice to the generality of the foregoing the following shall be regarded as causes beyond the Seller's reasonable control.

12.1 Act of God, explosion, flood, tempest, fire or accident;
12.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;
12.3 acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary, or local authority;
12.4 import or export regulations or embargoes;
12.5 strike, lock outs or other industrial actions or trade disputes (whether involving employees of the Seller or the third party);
12.6 difficulties in obtaining raw materials,labour,fuel,parts or machinery;
12.7 power failure or breakdown in machinery.

Remote Multi-Deck Cases / Osprey II

Warranty Certificate

SOĞUTMA SİSTEMLERİ

maryap

GARANTİ BELGESİ

TÜV

MALIN :	SATICI FİRMANIN :	ALICI FİRMANIN :
Cinsi :	Ünvanı : MARKET YAPI SOĞUTMA SİS. LTD. ŞTİ	Ünvanı :
Markası :	Adresi : SUBAŞI KÖYÜ	Adresi :
Modeli :	34540 ÇATALCA – İSTANBUL	
Seri No :	Tel : (212) 7950527	Tel :
	:	:
	Fax : (212) 7950196	Fax :
	Fatura Tarihi :	
	Fatura No :	
		Kaşe ve İmza :

Teslim Tarihi / Yeri : /

Azami Tamir Süresi :

Garanti Süresi :

Üretici Firma :

Firma Yetkilisi (Kaşe/İmza) :

SOĞUTMA SİSTEMLERİ

maryap

GARANTİ ŞARTLARI

TÜV

1- Garanti süresi malın veriliş tarihinden başlar ve 2 yıldır.
2- Malın garanti süresi içinde arızalanması durumunda tamirde geçen süre garanti süresine eklenir. Malın tamir süresi en fazla 30 (otuz) iş günüdür. Bu süre malın MARYAP servisine iletilmesinden itibaren başlar.
3- Malın garanti süresi içerisinde gerek malzeme ve işçilik, gerekse kurulum hatalarından dolayı arızalanması halinde işçilik masrafı değiştirilen parça bedeli yada başka herhangi bir ad altında hiçbir ücret talep olmaksizin tamiri yapılacaktır.
4- Malın kullanma kılavuzunda yer alan hususlara aykırı kullanılmasından kaynaklanan arızalar garanti kapsamı dışındadır.

KAPSAM DIŞI GARANTİ YÜKÜMLÜLÜĞÜ

1- Garanti belgesi üzerinde mamülün orjinal seri no'su üzerinde tahrifat yapıldığı hallerde garanti geçersizdir.
2- Garanti yükümlülüğünün geçerli olması için MARKET YAPI SOĞUTMA SİSTEMLERİ LTD. ŞTİ. yetkili personeli veya yetkili servislerinden başka hiçbir kimsenin hiçbir şekilde cihazın onarım ve tadiline karışmaması gerekmektedir.
3- Arızalı cihazın onarım yerini ve şeklini MARKET YAPI SOĞUTMA SİSTEMLERİ LTD. ŞTİ. belirler.
4- Aşağıda açıklanan koşullarda arızalı cihaz garanti kapsamına girmez.
a) Cihaza dışarıdan herhangi bir donanım bağlanması ile oluşan arızalar,
b) Anormal voltaj düşüklüğü veya fazlalığından, hatalı elektrik tesisatından, cihaz etiketinde belirtilenden farklı bir şebeke gerilimine bağlanması ile
c) Malın kurulumu ve/veya teslimatından sonraki nakliler ve yerleştirme sonucu (düşme, aşırı sarsılma, darbe v.b.) oluşabilecek arızalar,
d) Cihazın kullanım hatalarından meydana gelen dış ve iç yüzeylerdeki bozulma, çizilme, kırılmalar ve arızalar,
e) Doğal afetlerin (yıldırım, sel, su baskını, deprem, yangın v.b.) yol açacağı arızalar.

Bu gibi durumlarda arızalı cihazlar MARYAP yetkili personeli tarafından onarılacak olup, onarım ücreti alınacaktır.

Remote Multi-Deck Cases / Osprey II

Installation and Delivery Form

maryap

INSTALLATION & DELIVERY FORM

Order No :
Company Name : Start Date / Hour :
Adress : Finish Date / Hour :

Working Area : Customer Name :
Installation Staffs :

.....
.....
.....
.....

INSTALLATION CONTROL RATES

	NO	YES	EXPLANATIONS
Have cases been installed ?	☐	☐	
Have cases been tested for water leak ?	☐	☐	
Have curved glasses been installed right ?	☐	☐	
Have canopy panels been installed ?	☐	☐	
Has electrical connections been done , are they suitable to use ?	☐	☐	
Are refrigeration rates suitable ?	☐	☐	
Has installation been completed according to the project ?	☐	☐	
Have shelves and epos strips ben installed suitable to the order ?	☐	☐	
Has skirting profiles been mounted ?	☐	☐	
Did customer informed about usage and maintenance ?	☐	☐	
Is there 5 cm. space between case and back wall ?	☐	☐	
Is drain pipe visible on the front side ?	☐	☐	
Is there any problem on painted surfaces ? (Scratch, crack)	☐	☐	
Are horizontal surfaces parallel to the ground surface ?	☐	☐	
Is there any problem on mechanical parts ?	☐	☐	
Has digital thermostat been locked ?	☐	☐	

NOTE: (Please describe unsuitabilities in the EXPLANATIONS rows.)

Customer got User Manual and Education (signature) :

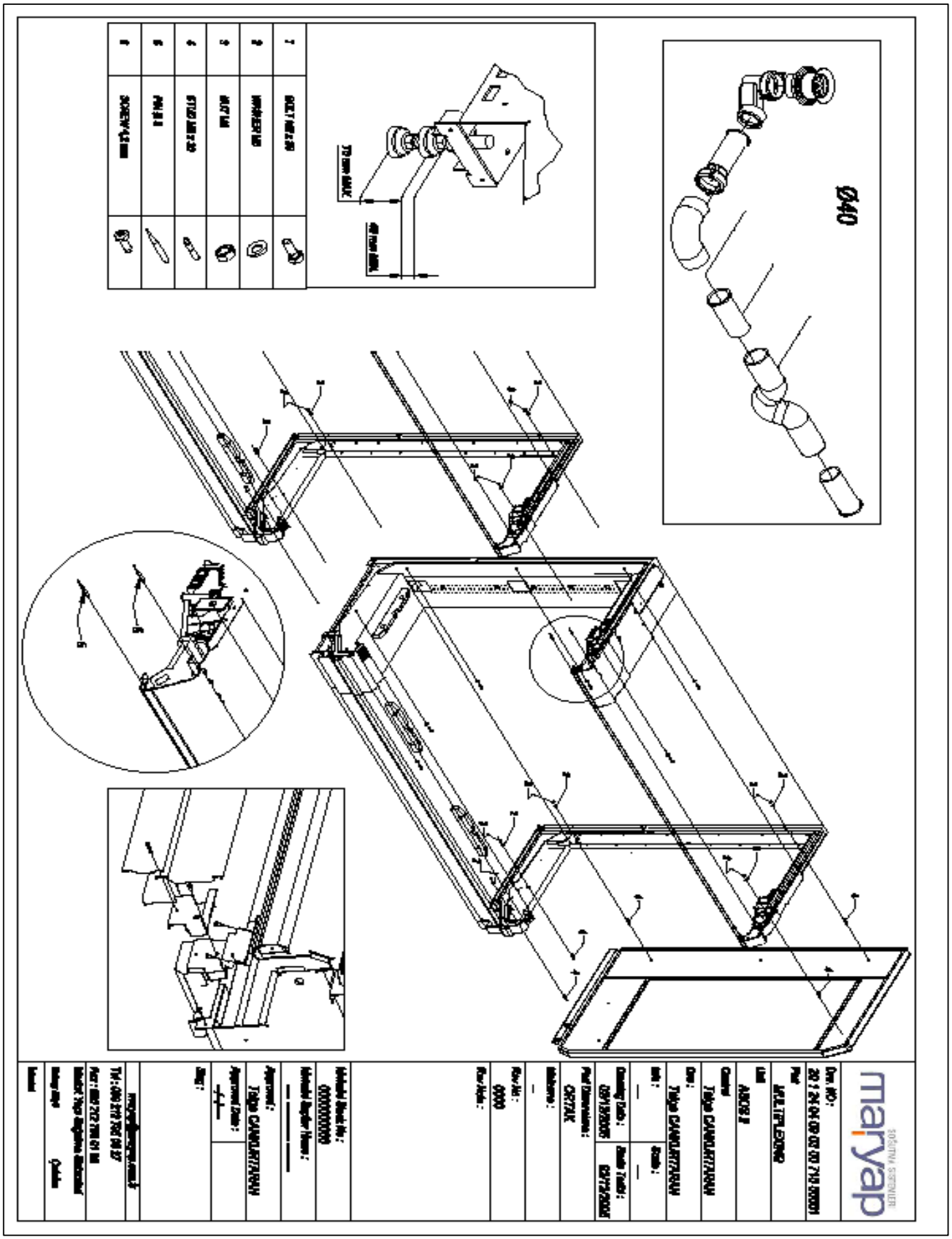
This part will be filled by the Customer.

	Very Good	Good	Average	Bad
Transportation Method	☐	☐	☐	☐
Sales representatives public relations	☐	☐	☐	☐
Sales representatives Knowledge / Ability	☐	☐	☐	☐
Installation staff Knowledge / Ability	☐	☐	☐	☐
Installation staff public relations	☐	☐	☐	☐
Finishing on time of installation	☐	☐	☐	☐

CUSTOMER (Name, Surname, Signature)	INSTALLATION STAFF (Name, Surname, Signature)

Remote Multi-Deck Cases / Osprey II

Multiplexing



Remote Multi-Deck Cases / Osprey II

Declaration of Conformity

CE

DECLARATION OF CONFORMITY

MANUFACTURER

NAME : MARKET YAPI SOGUTMA SIS. SAN. VE TIC. LTD.ŞTI

ADDRESS : SUBAŞI KÖYÜ –ÇATALCA /İSTANBUL

EQUIPMENT: ASOS /ASPENDOS /SATURN
Model:

RELATED DIRECTIVES

LOW VOLTAGE DIRECTIVE 73/23/EC

SAFETY AND HEALTHY REGULATIONS OF MACHINERY

Regulations Applied according to HARMONIZE STANDARDS :

EN 441 ; EN 60335-1 ; EN 60335-2-89 , BS 6148-8:1981 , BS 7671:2001 , EN ISO 3582:2001
EN 378-1-2-3-4

The undersigned declares that the described products meet the essential requirements of the above mentioned standart, based on
Low Voltage Directive 73/23/EC.

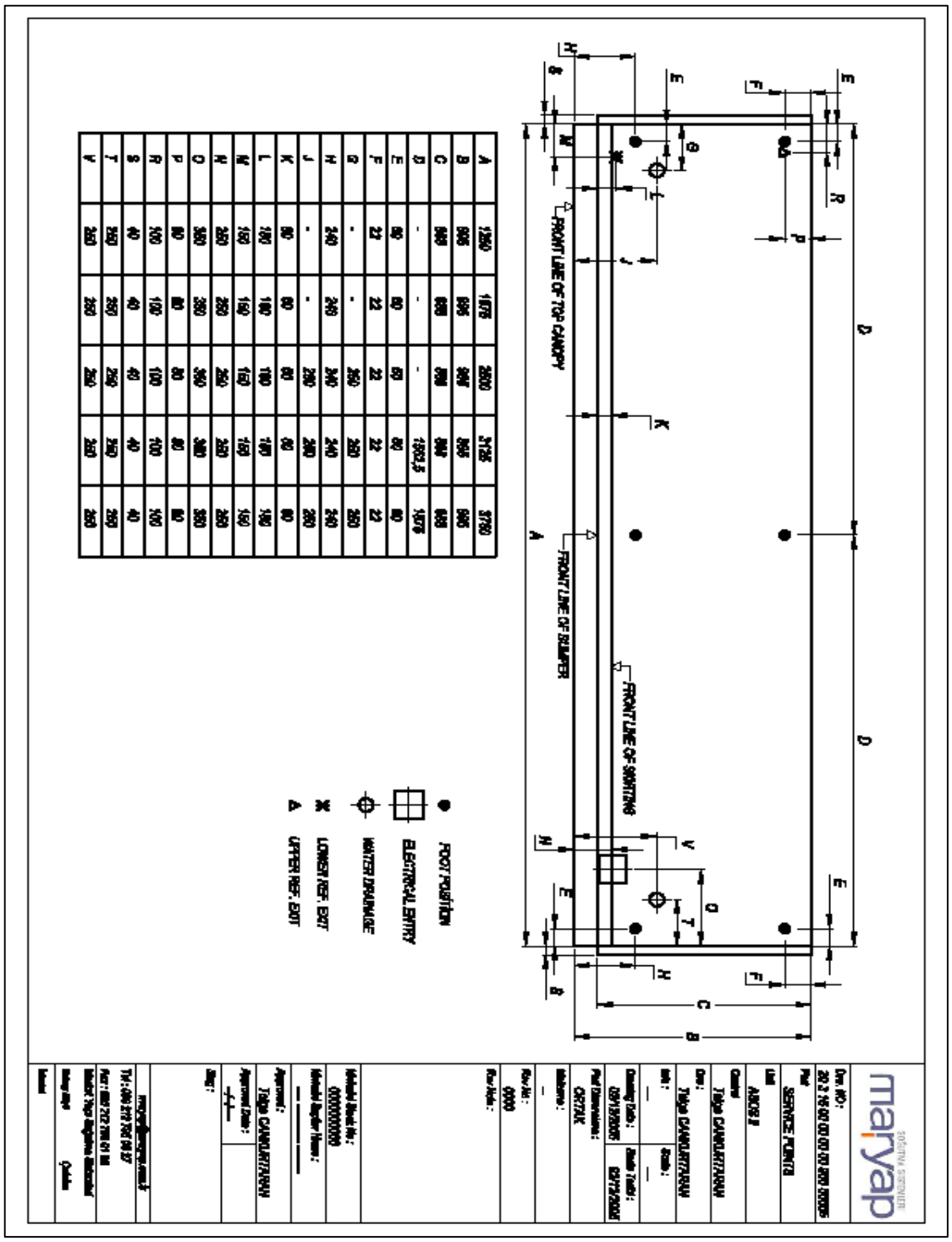
SIGNED ON BEHALF OF THE MANUFACTURER

NAME : TURHAN ILTER
POSITION : GENERAL MANAGER
PLACE / DATE :ISTANBUL/TURKEY 12/05/2006

SIGNATURE :

Remote Multi-Deck Cases / Osprey II

Service Points



A	1250	1875	2500	3125	3750
B	905	905	905	905	905
C	969	969	969	969	969
D	-	-	-	1993,5	1875
E	60	60	60	60	60
F	22	22	22	22	22
G	-	-	260	260	260
H	240	240	240	240	240
J	-	-	280	280	280
K	80	80	80	80	80
L	100	100	100	100	100
M	150	150	150	150	150
N	260	260	260	260	260
O	360	360	360	360	360
P	80	80	80	80	80
R	100	100	100	100	100
S	40	40	40	40	40
T	250	250	250	250	250
V	260	260	260	260	260